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## **LISTING OF THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for assigning certificates/private keyscertificates and associated private keys to a token, comprising:

accessing the token through a token reader connected to a computer system by a eertificate/private keycertificate authority;

reading a token ID and a user-signature certificate from the token;
searching for a match for the token ID and the user signature certificate in an authoritative database;

associated private key are is wrapped with a public key associated with the token ID and digitally signing the certificate/private keycertificate and the associated private key using a signature certificate of the certificate authority if a match for the token ID and the user signature certificate is found in the authoritative database;

downloading the certificate/private keycertificate and the associated private key to the token; and

decrypting the eertificate/private keycertificate and the associated private key using a private key stored in the token, such that the token stores at least the token ID, the private key, the user signature certificate and the certificate and the associated private key.

2. (Currently Amended) The method recited in claim 1, wherein the eertificate/private keycertificate and the associated private key is a plurality of eertificates/private keyscertificates and associated private keys wherein that at least one eertificate/private keyof the plurality of certificates and associated private keys is a signature certificate for the user, an encryption eertificate/private keycertificate and associated private key for the user, and a role

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eertificate/private keycertificate and associated private key for the user wherein the role certificate includes at least one policy.

- 3. (Currently Amended) The method recited in claim 2, wherein the wrapping of the certificate and the associated private key with the public key of the token encrypts the certificate and the associated private key.
- 4. (Original) The method recited in claim 3, wherein the token is a smart card.
- 5. (Original) The method recited in claim 4, wherein the token ID is assigned by a token manufacturer at the time the token is created and stored in the authoritative database when assigned to a user.
- 6. (Currently Amended) The method recited in claim 5, wherein downloading the eertificate/private keycertficate and the associated private key to the token is done through an unsecured communications line.
- 7. (Currently Amended) The method recited in claim 6, wherein decrypting the certificate/private keycertificate and the associated private key using athe private key stored in the token requires the entry of a passphrase by a user.
- 8. (Currently Amended) The method recited in claim 117, further comprising:

  authenticating, by the signing of the certificate/private keycertificate and the

  associated private key using a signature certificate of the certificate authority, that the

  certificate/private keycertificate and the associated private key were was issued by the certificate authority.
- 9. (Currently Amended) A computer program embodied on a computer readable medium and executable by a computer for assigning eertificates/private keyscertificates and associated private keys to a token, comprising:

accessing the token through a token reader connected to a computer system by a certificate authority;

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reading a token ID and a user signature certificate from the token; searching for a match for the token ID and the user signature certificate in an authoritative database:

creating a certificate and an associated private key, wherein the certificate and the associated private key are is wrapped with a public key associated with the token ID and digitally signing the certificate/private keycertificate and the associated private key using a signature certificate of the certificate authority if a match for the token ID and the user signature certificate is found in the authoritative database;

downloading the certificate/private keycertificate and the associated private key to the token; and

decrypting the eertificate/private key certificate and the associated private key using a private key stored in the token, such that the token stores at least the token ID, the private key, the user signature certificate and the certificate and the associated private key.

- 10. (Currently Amended) The computer program recited in claim 9, wherein the certificate/private-keycertificate and associated private key is a plurality of certificates/private keyscertificates and associated private keys wherein that at least one certificate/private keyof the plurality of certificates and associated private keys is a signature certificate for the user, an encryption eertificate/private keycertificate and associated private key for the user, and a role certificate/private keycertificate and associated private key for the user, wherein the role certificate includes at least one policy.
- The computer program recited in claim 10, wherein the wrapping 11. (Currently Amended) of the certificate with the public key of the token encrypts the certificate/private keycertificate and the associated private key.
- 12. (Original) The computer program recited in claim 11, wherein the token is a smart card.

- 13. (Original) The computer program recited in claim 12, wherein the token ID is assigned by a token manufacturer at the time the token is created and stored in the authoritative database when assigned to a user.
- 14. (Currently Amended) The computer program recited in claim 13, wherein downloading the <u>certificate/private keycertificate</u> and the <u>associated private key</u> to the token is done through an unsecured communications line.
- 15. (Currently Amended) The computer program recited in claim 14, wherein the decrypting the certificate/private keycertificate and the associated private key using athe private key stored in the token requires the entry of a passphrase by a user.
- 16. (Currently Amended) The computer program recited in claim 15, further comprising: authenticating by the signing the certificate/private keycertificate and the associated private key using a signature certificate of the certificate authority that the certificate/private keycertificate and the associated private key was issued by the certificate authority.